

PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MDG/24/14492	
1.3 Title of PCI	AMKOR ATT (Taiwan) for listed products in WLCSP Packages - Polyimide (PI) passivation layer change from version LTC9320-E07S to LTC9320-E19	
1.4 Product Category	GPM - STM32WB : STM32WB55xx - STM32U : STM32U535x & STM32U545x. CS /EEPROM : - M35Pxx-CXCST/EF - M95Pxx-IXCST/EF in WLCSP package	
1.5 Issue date	2024-04-05	

2. PCI Team

2.1 Contact supplier	
2.1.1 Name	KRAUSE INA
2.1.2 Phone	+49 89460062370
2.1.3 Email	ina.krause@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Ricardo Antonio DE SA EARP,Marie-France FLORENTIN
2.1.2 Marketing Manager	Veronique BARLATIER,Sylvain FIDELIS
2.1.3 Quality Manager	Pascal NARCHE,Mickael DENAIS-ALLICHON

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	New direct material part number (same supplier, different supplier or new supplier), Bumps	AMKOR ATT (Taiwan)

4. Description of change

	Old	New
4.1 Description	Current Condition: LTC 9320 E07S Polymer supplier: Asian source Both of Exposure machines type Aligner and Stepper can use for PI1 and PI2 layers	New Condition: LTC 9320 E19 Polymer supplier: European source Dedicate Exposure machines type: Stepper is for PI1 and Aligner is for PI2.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	no impact	

5. Reason / motivation for change

5.1 Motivation	Fujifilm announced that passivation layer LTC-9320 E07S will be discontinued and ATT proposed using the latest version LTC-9320 E19 instead. The present volatile market situation impacts the chemical raw material availability. The high market demands create raw material shortages and force raw material suppliers to optimize their product portfolio. The present resin supplier of Fuji-LTC9320-E07S passivation layer decided to stop the production of the raw material with immediate effect under these market circumstances. This specific resin is only used in the production of LTC 9320-E07S. Consequently, LTC9320-E07S has become obsolete, the current stock is limited and will be replaced by a new LTC9320-E09 starting march 2024.
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	Traceability ensured by ST internal tool and date code on the package marking.
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7. Timing / schedule

7.1 Date of qualification results	2024-03-26
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7.2 Intended start of delivery	2024-04-30
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation			
8.1 Description	14492 MDG RER2114 V1 - PCI14492 - ATT WLCSP LTC9320 E19 - reliability evaluation report.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2024-04-05

9. Attachments (additional documentations)	
14492 Public product.pdf 14492 MDG RER2114 V1 - PCI14492 - ATT WLCSP LTC9320 E19 - reliability evaluation report.pdf	

10. Affected parts		
10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	STM32U535JEY6QTR	
	STM32U535NEY6QTR	
3515806	STM32WB55VGY6TR	
3642684	STM32WB5MMGH6TR	

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